PHOSPHOPROTEIN BINDING AGENTS AND METHODS OF THEIR USE

Abstract of the Invention

The invention provides reagents and methods for characterizing (i.e.,

identification and/or quantitation) the phosphorylation states of proteins.

Proteins may be post-transcriptionally modified such that they contain phosphate groups at either some or all of their serine, threonine, tyrosine, histidine, and/or lysine amino acid residues. In many cases the extent to which a protein is phosphorylated determines it bioactivity, i.e., its ability to effect cell functions such as differentiation, division, and metabolism. Hence, a powerful tool for diagnosing various diseases and for furthering the understanding of protein-protein interactions is provided.